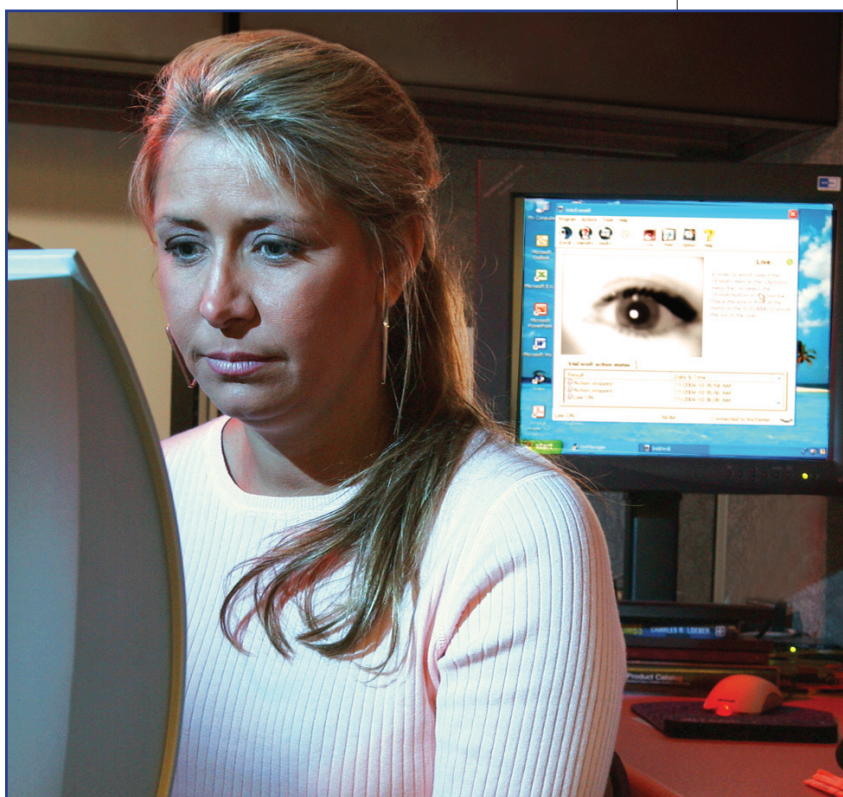# Cyber Security

As threat increases to both government and private industry, cyber security has fast become a challenging and important need to both. With customers such as the FBI and Department of Defense, Y-12 has the capabilities to cover every facet of cyber security including vulnerability and risk assessments, security planning, ultra-secure computer networks, and security training.

The Y-12 National Security Complex has extensive capabilities in virtually every facet of cyber security including vulnerability and risk assessments, system design, security planning, security testing and evaluation, user security training and awareness and ultra-secure computer networks. A number of staff members are certified as information security professionals.

CAPABILITIES

- Secure network design
- Security plans and documentation
- Vulnerability and risk assessments
- Security products evaluations
- Security training
- Encryption
- Public key infrastructure (PKI)
- Security testing
- Advanced authentication
- Information security
- Security policy evaluation

Providing a safe and secure cyber environment is recognized as one of the most important and challenging needs of government and business today. The threat spectrum, in order of increasing motivation and resources, includes system users, hackers, criminal elements and foreign agents. For security measures to be effective, they must be considered over the entire life cycle of an information system from design to deployment.

Y-12 has expertise in biometrics technology such as iris recognition.

Protecting America's Future

APPLICATIONS

Y-12 provides cyber security support to a broad customer base with applications across the federal government including the Department of Defense, Department of Energy, the National Nuclear Security Administration, FBI, Office of Personnel Management and the State Department. The integration of networking and cyber security expertise provides cost-effective support for the design, development, deployment and evaluation of secure information systems. Network and cyber security support applications have been provided in the following areas:

- Certification practice statement documents for public key infrastructure for unclassified and classified networks
- Cyber security policy assessment
- Intrusion detection concept of operations
- INFOSEC training for information security officers
- Firewalls, intrusion detection systems and public key infrastructure products
- Computer security plans and other security documentation
- Security testing and evaluation for classified and unclassified networks
- Inspection, verification and validation of cyber security
- Alarm systems for highly classified environments
- Evaluation of biometric technologies for secure access control
- Penetration testing of federal computer systems
- Information technology vulnerability assessments
- Security assessments of law enforcement information systems

Complete, safe and secure cyber environments

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